

CORROSION CONTROL

Anniston Army Depot

February 9, 2010

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Production Engineer**



| Report Documentation Page | | | | Form Approved OMB No. 0704-0188 | |
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| 1. REPORT DATE 09 FEB 2010 | | 2. REPORT TYPE | | 3. DATES COVERED 00-00-2010 to 00-00-2010 | |
| 4. TITLE AND SUBTITLE Corrosion Control Annistan Army Depot | | | | 5a. CONTRACT NUMBER | |
| | | | | 5b. GRANT NUMBER | |
| | | | | 5c. PROGRAM ELEMENT NUMBER | |
| 6. AUTHOR(S) | | | | 5d. PROJECT NUMBER | |
| | | | | 5e. TASK NUMBER | |
| | | | | 5f. WORK UNIT NUMBER | |
| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Anniston Army Depot,#7 Frankford Rd,Anniston,AL,36203 | | | | 8. PERFORMING ORGANIZATION REPORT NUMBER | |
| 9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) | | | | 10. SPONSOR/MONITOR'S ACRONYM(S) | |
| | | | | 11. SPONSOR/MONITOR'S REPORT NUMBER(S) | |
| 12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited | | | | | |
| 13. SUPPLEMENTARY NOTES 2010 U.S. Army Corrosion Summit, Huntsville, AL, 9-11 Feb | | | | | |
| 14. ABSTRACT | | | | | |
| 15. SUBJECT TERMS | | | | | |
| 16. SECURITY CLASSIFICATION OF: | | | 17. LIMITATION OF ABSTRACT Same as Report (SAR) | 18. NUMBER OF PAGES 10 | 19a. NAME OF RESPONSIBLE PERSON |
| a. REPORT unclassified | b. ABSTRACT unclassified | c. THIS PAGE unclassified | | | |

ON-GOING ACTIONS

Coatings

- Oil/lube select parts.
- Anodize, Chrome, and Black Oxide (et.al.)
- Substrate Prep and CARC paint.

Stowage

- Climate controlled storage (limited).
- Weather resistant (rain, uv) stowage.
- Right Material – Right Time



In Process Actions

Bldgs 129
and 114

- Installation of new cleaning technologies for small arms overhaul and plating operations that incorporate rust inhibition into final stage.

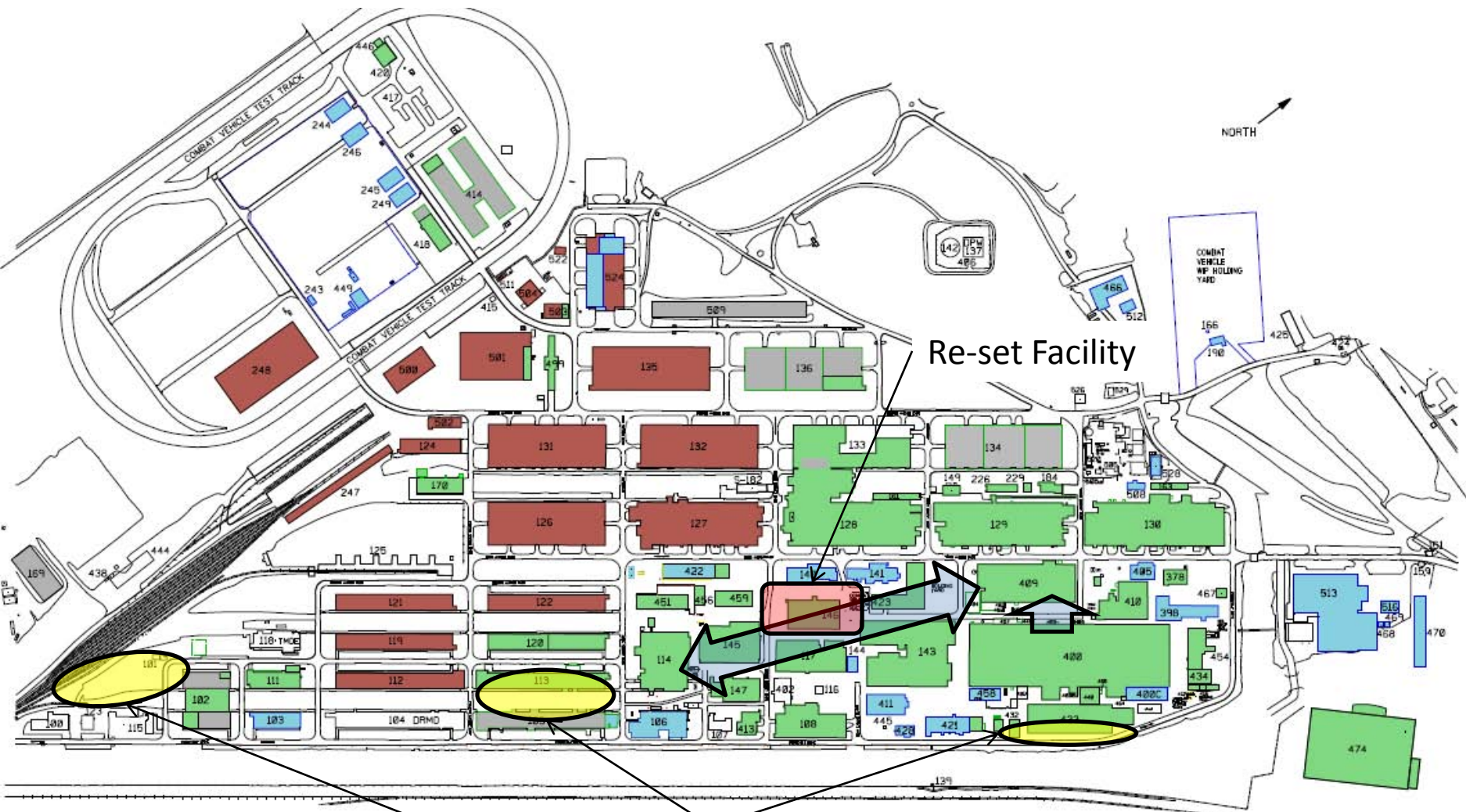
Bldg 409

- 'Single Piece' flow through Bldg 409.

Paint
Application

- Advent of Automated Proportioners (eliminate hand mixing of two component coatings).



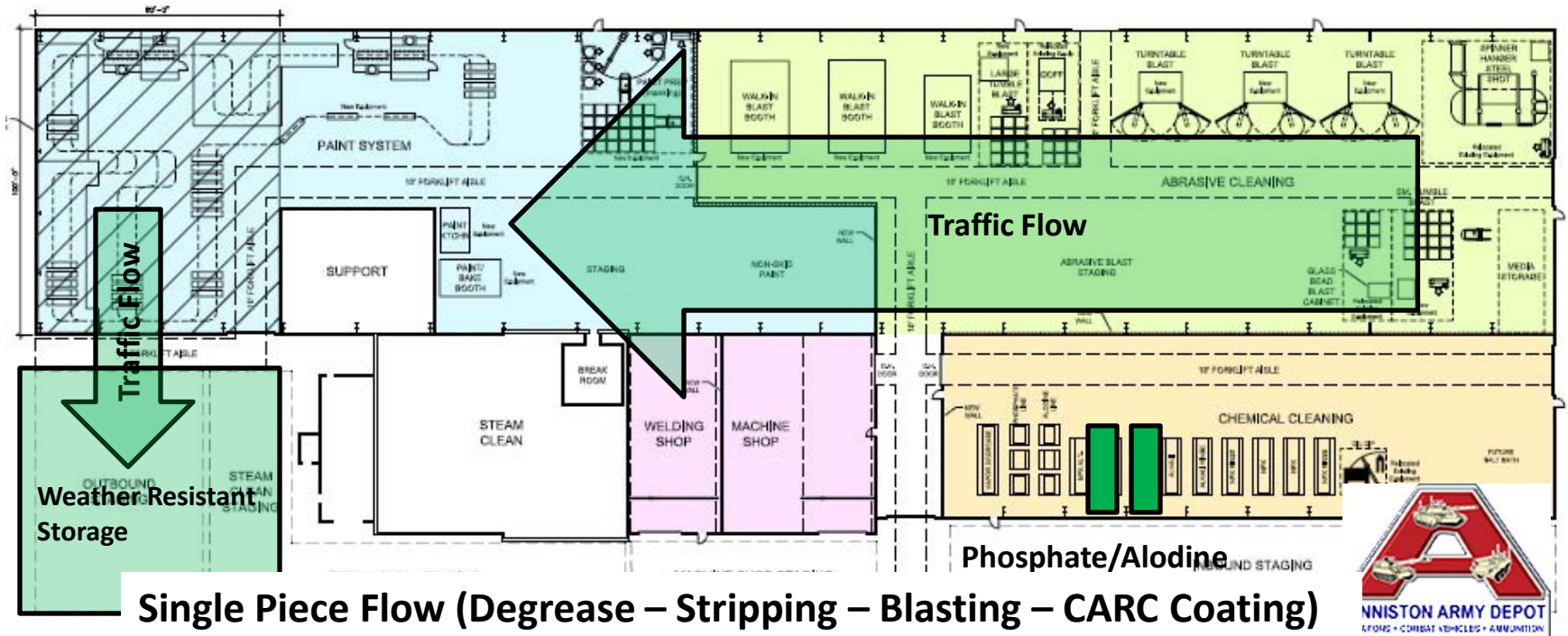
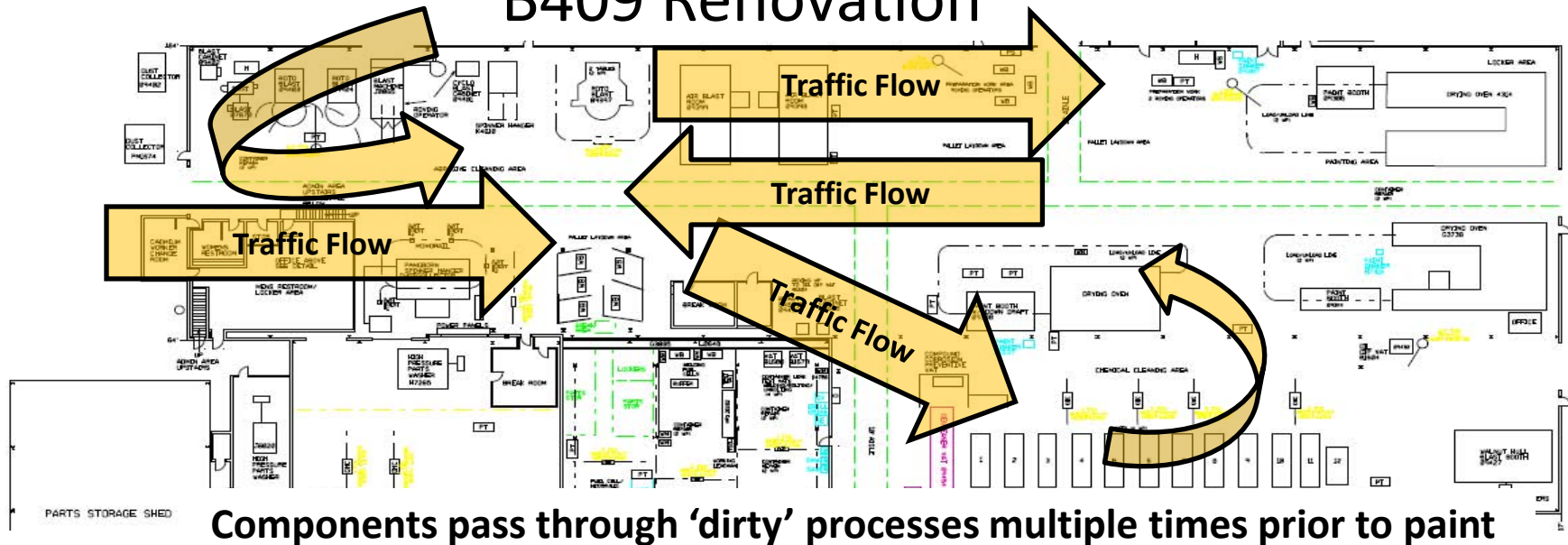


Re-set Facility

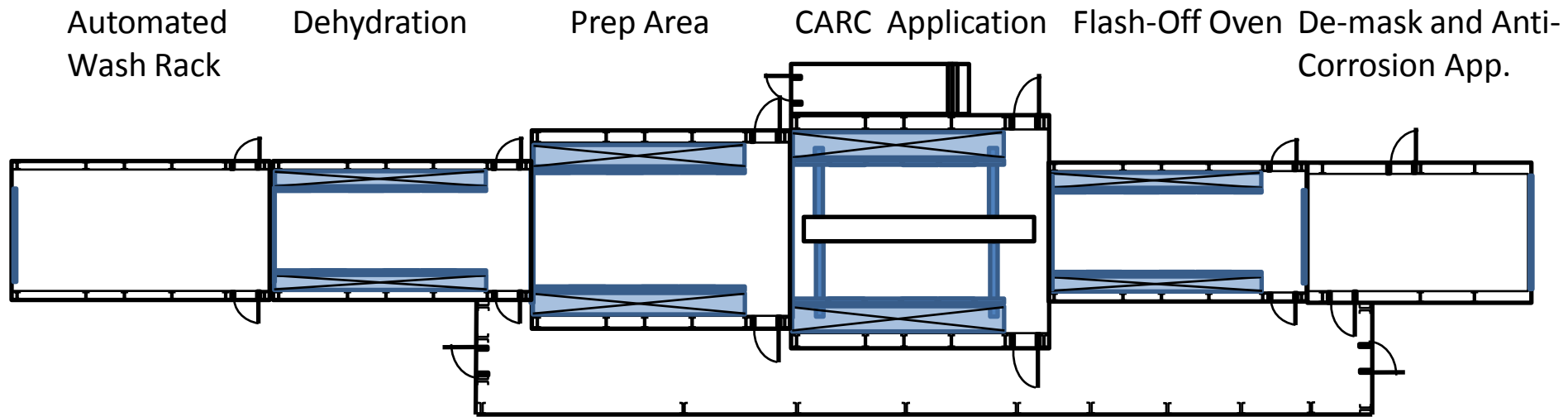
Outside Storage



B409 Renovation



Wheeled Vehicle Re-set Facility



Planned Future Actions

Survey

- Perform a corrosion survey to assess impact of corrosion on depot activities and identify opportunities to reduce corrosion.
- Analyze data and prioritize those actions that will yield the greatest impact for corrosion prevention.

Routing

- Evaluate parts staging procedures to determine if parts routing optimization can minimize corrosion.

Stowage

- Evaluate need for improved infrastructure for parts stowage and staging.



Planned Future Actions Continued

Inhibitor

- Evaluate the benefits of applying corrosion inhibitor to the finished product prior to delivery to customer.
- Implement advanced cleaning system incorporating corrosion inhibitors to replace Building 409 solvent cleaning.

Process Water

- Evaluate quality of supply water for aqueous based processes and determine if water polishing can reduce corrosion.

Work Practices

- Establish Corrosion Prevention mind-set and work practices internally as a function of Lean Manufacturing and Environmental initiatives.



Challenges

Resources

- Limited funding.
- Limited manpower.

Technical Assistance

- For cleaning systems design, wash rack optimization and water polishing requirements.
- For data collection, data review, interpretation and reporting.

Infrastructure

- Limited space.
- Proper environmental controls for corrosion prevention.



Challenges Continued

Communication

- Receiving information from the customer on corrosion issues in the field.
- Internal communication on what changes and initiatives are being made at ANAD.

